Form PT-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
UMT-101XSERIAL NO.
09/775,386

APPLICANT(S): Michael D. DeGrandpre

FILING DATE
January 31, 2001GROUP ART UNIT
~~2877~~ 1743

INFORMATION DISCLOSURE STATEMENT

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U.S. PATENT DOCUMENTS

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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

81c	A	✓	MacCraith, B.D.; McDonagh, C.; McEvoy, A.K.; Butler, T.; O'Keefe, G.; Murphy, V.J. <i>Sol-Gel Sci. Tech.</i> 1998, 8, 1053-1061.
81c	A	✓	Spichiger-Keller, U.E. <i>Chemical Sensors and Biosensors for Medical and Biological Applications</i> , Wiley-VCH: Weinheim, 1998.
81c	AS	✓	Berman, R.J.; Christian, G.D.; Burgess, L.W. <i>Anal. Chem.</i> 1990, 62, 2066-2071

EXAMINER

Cross, L.

DATE CONSIDERED

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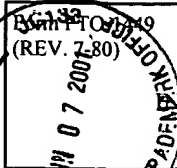
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

81c	AQ	✓	DeGrandpre, M.D. <i>anal. Chem.</i> 1993, 65,331-337. ✓
81c	A R	-	DeGrandpre, M.D.; Hammar, T.R.; Smith, S.P.; Sayles, F.L. <i>limnol. And Oceanog.</i> 1995, 40, 969-976. ✓
81c	AS	✓	Byrne, R.H.; Breland, J.A. <i>Deep-Sea Res.</i> 1989, 36, 803-810. ✓

EXAMINER Cross, L.	DATE CONSIDERED 9/03
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

810	A	✓	Clayton, T.D.; Byrne, R.H. <i>Deep-Sea Res.</i> 1993, 40, 2115-2129. ✓
810	A	✓	Goyet, C.; Walt, D.R.; Brewer, P.G. <i>Deep-Sea Res.</i> 1992, 39, 1015-1026 ✓
810	AS	✓	Goswami, K.; Kennedy, J.A.; Dandge, D.K.; Klainer, S.M.; Tokar, J.M. <i>Proc. SPIE-Int. Soc. Opt. Eng.</i> 1990, 1172, 225-232. ✓

EXAMINER Cross, L	DATE CONSIDERED 9/03
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

81c	A	✓	Lefevre, N.; Ciabrini, J.P.; Michard, G.; Brient, B.; DuChaffaut, M.; Merlivat, L. <i>Mar. Chem.</i> 1993, 42, 189-198.
81c	A	✓	Weeks, D.A.; Johnson, K.S. <i>Anal. Chem.</i> 1996, 68, 2717-2719.
81c	AS	✓	Peterson, J.L.; Goldstein, S.R.; Fitzgerald, R.V.; Buckhold, K.K. <i>Anal. Chem.</i> 1980, 52, 864-869.

EXAMINER

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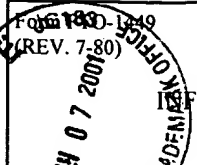
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

81c	A	/	Zhou, Q.; Kritz, D.; Bonnell, L.; Sigel, G. App. Opt. 1989, 28, 2022-2025.
81c	A	✓	Chau, L.K.; Porter, M.D. Anal. Chem. 1990, 62, 1964-1971. ✓
81c	AS	✓	DeGrandpre, M.D., Anal. Chem. 1999, 71, 1152-1159. ✓

EXAMINER Cross, L.	DATE CONSIDERED 9/03
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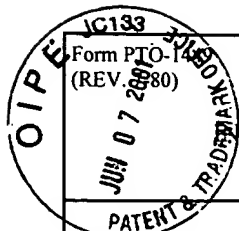
81C	A	✓	Tabacco, M.B.; Uttamial, M.; McAllister, M.; Walt, D.R. <i>Anal. Chem.</i> 1999, 71, 154-161. ✓
81C	A	✓	Burgess, L. W. <i>Sensors and Actuators B</i> 29 1995, 10-15
81C	AS	✓	Weigl, B.H.; Holobar, A. <i>Analytica Chimica Acta</i> 282, 1993, 335-343 ✓

EXAMINER Cross, L.	DATE CONSIDERED 9/03
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

81C	A	?	Wolfbeis, O.S.; Posch, H.E.; Kroneis, H.W. <i>Anal. Chem.</i> 1985, 57, 2556-2561.
81C	A	✓	Klimant, I.; Meyer, V.; Kuhl, M. <i>Limnol. Oceanog.</i> 1995, 40, 1159-1165. w
81C	AS	✓	Draxler, S.; Lippitsch, M.E. <i>Proc. SPIE-Int. Soc. Opt. Eng.</i> 1993, 2085, 61-67.

EXAMINER

Cross, L

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

81C	A	✓	Ingle, J.D.; Crouch, S.R. <i>Spectrochemical Analysis</i> . Prentice-Hall: New Jersey, 1988.
81C	A	✓	Thompson, R.B.; Jones, E.R. <i>Anal. Chem.</i> 1993, 65, 730-734.
81C	AS	✓	McDonagh, C.; MacCraith, B.D.; Mc envoy, A.K. <i>Anal. Chem.</i> 1998, 70, 45-50.

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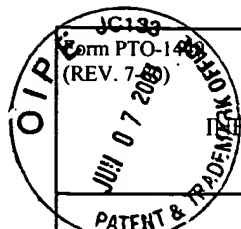
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AC	A	✓	Wolfbeis, O.S.; Weis, L. J. <i>Anal. Chem.</i> 1988, 2028-2030
AC	A	✓	Luo, S.; Walt, D.R. <i>Anal. Chem.</i> 1989, 61, 174-177
AC	AS		Walt, D.R.; Gabor, G.; Goyet, C. <i>Analytica Chimica Acta</i> 274, 1993, 47-52

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

81C	A	DeGrandpre, M.D.; Hammar, T.R.; Wallace, D.W.R.; Wirick, C.D. Limnol. Oceanogr. 42(1) 1997, 21-28
	Q	
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